



SIMATIC NET, ECOFAST FIBER OPTIC HYBRID CABLE,  
DESINA COMPLIANT,  
TRAILING TYPE CABLE W. TWO PLASTIC FO C. AND 4  
COPPER CONDUCTORS 1.5 SQMM,  
PREASS. W. 2 DESINA CONNECTORS LENGTH 3 M

Acceptability for application

DESINA-compliant devices (e.g. for ET 200X), construction of optical  
PROFIBUS DP networks indoors

Cable designation

I-(ZN)V4Y11Y 2P 980/1000 + 4x1.5

Cable length

3 m

### Electrical data

Operating voltage / RMS value 100 V

Conductor cross section / of the power wires 1.5 mm<sup>2</sup>

Continuous current / of the power wires 12 A

### Optical data

Damping ratio per length / at 660 nm / maximum 280 dB/km

Bandwidth length product / at 650 nm 10 GHz·m

### Mechanical data

Number of fibers / per FOC core 1

Number of FOC cores / per FOC cable 2

Version of the FO conductor fiber Step index fiber 980/1000 μm

Design of the fiber-optic cable Segmentable

Number of electrical wires 4

Outer diameter

• of optical fibers 980 μm

• of the optical fiber sheath 1000 μm

• of the FOC core sheath 2.2 mm

|                                                            |                                                                                                  |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Outer diameter / of the cable                              | 10.6 mm                                                                                          |
| Material                                                   |                                                                                                  |
| • of the fiber-optic cable core                            | Polymethyl methacrylate (PMMA)                                                                   |
| • of the optical fiber sheath                              | Fluoridated special polymer                                                                      |
| • of the FOC core sheath                                   | PA                                                                                               |
| • of the fiber-optic cable sheath                          | PUR                                                                                              |
| Color                                                      |                                                                                                  |
| • of the power wire insulation                             | Black                                                                                            |
| • of the FOC core sheath                                   | Black / orange                                                                                   |
| Bending radius / with multiple bends / minimum permissible | 110 mm                                                                                           |
| Number of bending cycles                                   | 5000000                                                                                          |
| • Note                                                     | For use in cable carriers, for 5 million bending cycles with a bending radius of 106 mm (10 x D) |
| Traction stress / maximum                                  | 60 N                                                                                             |
| Short-term shear force per length                          | 10 N/cm                                                                                          |
| Continuous lateral force per length                        | 1 N/cm                                                                                           |
| <b>Permitted ambient conditions</b>                        |                                                                                                  |
| Ambient temperature                                        |                                                                                                  |
| • during operating                                         | -20 ... +60 °C                                                                                   |
| • during storage                                           | -20 ... +60 °C                                                                                   |
| • during transport                                         | -20 ... +60 °C                                                                                   |
| • during installation                                      | -5 ... +50 °C                                                                                    |
| Protection class IP                                        | IP65                                                                                             |
| Chemical resistance                                        |                                                                                                  |
| • to mineral oil                                           | Conditional resistance                                                                           |
| • to grease                                                | Conditional resistance                                                                           |
| Radiological resistance / to UV radiation                  | resistant                                                                                        |
| <b>Product properties, functions, components / general</b> |                                                                                                  |
| Product feature                                            |                                                                                                  |
| • halogen-free                                             | No                                                                                               |
| • silicon-free                                             | Yes                                                                                              |
| <b>Standards, specifications, approvals</b>                |                                                                                                  |
| UL/ETL listing / with 300 V rating                         | No                                                                                               |
| UL/ETL style / with 600 V rating                           | No                                                                                               |
| Verification of suitability                                |                                                                                                  |
| • RoHS conformity                                          | Yes                                                                                              |
| <b>letzte Änderung:</b>                                    | Aug 4, 2014                                                                                      |